Claims

In the claims:

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receiving an incoming call at an automated attendant port;

receiving a ¢all handle associated with the incoming call;

applying the call handle to retrieve caller information associated with the call

handle; and

using the retrieved caller information to handle the call if caller information associated with the call handle is found.

2. The method of claim 1, wherein receiving a call handle comprises receiving a tone sequence at the automated attendant port, decoding the tone sequence, and deriving/the call handle from the decoded tone sequence.

The method of claim 1, wherein the tone sequence is a DTMF tone sequence transmitted to the port over the same transmission line as the incoming call.

4. The method of claim 1, wherein receiving a call handle comprises receiving a call handle message through a digital interface.

The method of claim 1, wherein the digital interface comprises a digital backplane connection to a switch from which the incoming call was received.

The method of claim 1, wherein receiving an incoming call comprises

- receiving an incoming call from a switch and wherein receiving a call handle comprises
- 3 receiving a call handle from the switch.

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1 7. The method of claim 1, wherein using the retrieved caller information 2 comprises providing audio information in a language previously selected by the caller. The method of claim 1, if no caller information associated with the call 1 8. 2 handle is found, further comprising: 3 requesting caller information from the caller; 4 storing received caller information in association with the call handle; and 5 using the received caller information to handle the call. 9. 1 The method of claim 1, further comprising receiving an indication of 2 whether the call is a forwarded call and wherein retrieving caller information and using 3 the retrieved information are performed only if the call is a forwarded call. 10. 1 The method of claim 9, if the call is not a forwarded call, further 2 comprising: 3 requesting caller information from the caller; 4 storing received caller information in association with the call handle; and 5 using the received caller information to handle the call. A machine-readable medium having stored thereon data representing 1 11. instructions which, when executed by a machine, cause the machine to perform operations comprising: receiving an incoming call at an automated attendant port; 5 receiving a call handle associated with the incoming call;

	6	applying the call handle to retrieve caller information associated with the call
	7	handle; and
	8	using the retrieved caller information to handle the call if caller information
	9	associated with the call handle is found.
	1	12. The medium of claim 11, wherein if no caller information associated with
	2	the call handle is found, the instructions, when executed by the machine, cause the
	3	machine to perform further operations comprising:
	4	requesting caller information from the caller;
	5	storing received caller information in association with the call handle; and
	6	using the received caller information to handle the call.
	1	13. The method of claim 11, wherein if the call is not a forwarded call, the
	2	instructions, when executed by the machine, cause the machine to perform further
	3	operations comprising:
	4	requesting caller information from the caller;
	5	storing received caller information in association with the call handle; and
	6	using the received caller information to handle the call.
	7 1	14 An apparatus comprising:
	2	an automated attendant port to receive an incoming call;
	3	an automated attendant port to receive a call handle associated with the incoming
	4	call;
	5	a memory containing caller information associated with call handles; and

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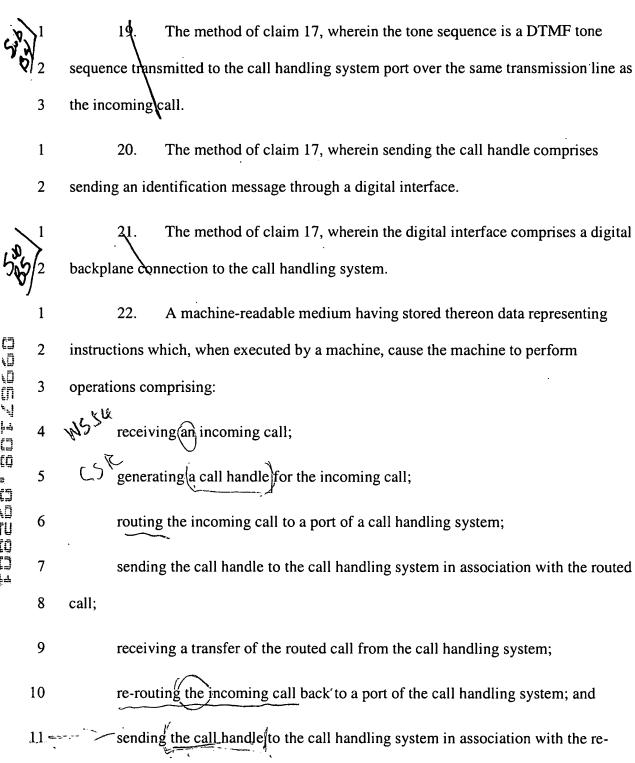
6	a processor to apply the call handle to retrieve caller information and use the
7	retrieved caller information to handle the call if caller information associated with the call
8	handle is found.
1	15. The apparatus of claim 14, wherein the automated attendant port to receive
2	the call handle comprises a digital interface.
1	16. The apparatus of claim 15, wherein the digital interface comprises a digital
2	backplane connection to a switch from which the incoming call was received.
1	17. A method comprising:
2	receiving an incoming call;
3	generating a call handle for the incoming call;
4	routing the incoming call to a port of a call handling system;
5	sending the dall handle to the call handling system in association with the routed
6	call;
7	receiving a transfer of the routed call from the call handling system;
8	re-routing the incoming call back to a port of the call handling system; and
9	sending the call handle to the call handling system in association with the re-
10-	routed call.
1	18. The method of claim 17, wherein sending the call handle comprises
2	deriving a tone sequence for the identification, coding the tone sequence into tones and

sending the tone sequence to the call handling system port.

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routed call.



1 23. The medium of claim 22, wherein the instructions for sending the call

2 handle comprise instructions which, when executed by the machine, cause the machine to

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interface.

- perform further operations comprising sending an identification message through a digital 3 4 interface. 1 24. The medium of claim 23, wherein the digital interface comprises a digital
- 2 backplane connection to the call handling system.
- A method comprising: a port to receive an incoming call; a call handle generator to generate a call handle for the incoming call; 3 4 a switching betwork to route the incoming call to a port of a call handling system; 5 and 6 an interface to send the call handle to the call handling system in association with HCO 7 the routed call. 1 26. The apparatus of claim 25, wherein the interface comprises a digital
 - 1 27. The apparatus of claim 26, wherein the digital interface comprises a digital 2 backplane connection to the call handling system.